User Manual

5 / 8 / 16 / 24 Port Gigabit Ethernet switch

This User's manual applies to our

STE-1005-G/STE-1008-G/STE-1016-G/STE-1024-G

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1. Product Specification.

5/8/16/24 Port Fast Ethernet Switch is base on the 100Mbps, have 5,8,16,24,48 10/100/1000Mbps auto-negotiation port,auto-negotiation RJ45 port .All the port support Auto MDI/MDIX . Can be used as normal desk switch, also can be used as mount, can guarantee the speed of the next grade switch by its Giga port.It's the best choice of the Internet cafe, university, enterprise,house, SOHO.

1.1 Article list

Check the articles kindly after you open the packing as below:
A.1 piece 5/8/16/24 Port Gigabit Fast Ethernet switch .
B.1 piece Power line
C.1 pair "L" bracket" , 8 pieces screw, 4 pieces rubber mat.
D.1 piece User's manual .

1.2 Switch front panel and back panel specification

5/8/16/24 Giga Port Fast Ethernet switch front panel including RJ45 area in the right side and situation indicator is in the left side area.

5/8/16/24 10/100/1000Mbps RJ45 port.

Every 10/100/1000 port has 1 LINK/ACT indicator, 1 100M indicator; Besides, there's a Power indicator in the front panel.

Its Back plane has 5/8/16/24 Fast Gigabit Ethernet RJ45 Port and an AC power port for AC power input .

Notice: Please Use the original power supply , the Non-matching power supply may damage the switch.

1.3 LED Indicators

The LED indicators of the Switch include Power、Link/ACT and 100M/1000M. The LED indicators are used to facilitate monitoring and troubleshooting of the Switch. The following shows the LED indicators for the Switch along with explanation of each indicator.

LED Indicator	Color	Status	Description
POWER	Green	Light	This indication op when the Switch is turned on
		Off	If this indicator is not light,check the AC power connector to ensure proper insertion of the power cord and the power switch is turned on.
Link/Act	Green	Light	The port is connected to an Ethernet station
	Green	Blinking	The port is transmitting or receiving data
100M	Green	Light	The port is connected to a 100Mbps Fast Ethernet station or MDI-II
1000M	Green	Light	The port is connected to a 1000Mbps Fast Ethernet station or MDI-II

Remark:

1.100Mbps indicator described above is optional.

2. 100/1000M port may blinking together with Link/Act when it transfer data .

1.4 Features

STE-1005/1008/1016/1024-G Giga switch has High speed dynamic memory, support packet store and forward function . STE-1005/1008/1016/1024-G
Giga switch combined store and forward function and dynamic memory to make sure sending the packet to each port from the memory. Control the data flow between the sending and receiving nodes to prevent any possible packet loss. The 8/16/24 Giga switch work as full duplex mode, 10/100/1000Mbps auto-negotiation, the speed can reach 2000Mbps at the farthest.

1.5 Technology parameter

Protocol and standard	IEEE802.3, IEEE802.3u, IEEE802.3ab
Ports	24 10/100/ 1000M Auto-Negotiation RJ45 Ports with Auto MDI/MDI-X
Network Media	CAT 5 UTP for 1000Mbps CAT 3 UTP for 10Mbps For transmission speed of 1000Mbps, CAT 5 UTP recommended
Transmission Method	Store-and-forward
LED Indicator	Per Unit: Power Per Port: Activity/Link, speed
Dimension (W x D x H)	Standard 19-inch rack-mountable Steel Case
Environmental	Operating temperature: 0o – 40oC (32o – 104oF) Storage temperature: -40o – 70 oC (-40o–157 oF); Operating Humidity : 10% to 90% RH & Non-Condensing Storage Humidity: 5% to 90% RH & Non-Condensing
Power Supply and Consumption	Inter Power Supply 160- 260VAC, 50/60Hz Max Consumption 40 Watts
MAC Address learning	Automatic learn and aging.

Performance Function

A. Compliance to the IEEE802.3、IEEE802.3u、IEEE802.3ab Ethernet Protocol , support 10/100/1000Mbps 3 three kinds transfer model together.

B. Support NWAY auto-negotiation function,monitor speed ,duplex,flow control automatically, play after plug. Avoid the complex setting procedure.Support the PNP .

C. Auto MDI/MDIX function, predigest the network span and maintenance .

D. Support IEEE802.3x duplex control, Half duplex Backpressure control. High backplane bandwidth, support Non-blocking wire-speed transfer.

E. Use the store-transfer infrastructure ,support MAC address leaning by itself , integrated 1-8K MAC address table.

F. High function Power supplier, the 16/24 port are steel 19 inches standard bracket structure.

2. Installation

When on the top of a table installing the switch,the rubber pad of equipment bottom touches ground first. There is the ventilation space that is enough between the body of equipment and vicinity. 16/24 switch is standard EIA size .

Please notice the articles below when you install the switch:

A. Don’t put heavy article in the switch.

B. Convenience receptacle and equipment should be within 1.5 meters.

C. Check power supply is confirmed the safe Connection. Affirms to have the ventilation that is enough, can be very good dissipates heat. 16/24 giga switch can fixed into 19 inches bracket , please use the 2 pieces screws fix the “L” nog in the front of the switch, then fix the switch in the proper position in the bracket by the “L” nog, Please also tie all

the screws added for safe consideration.

2.1 SWITCH to PC

A PC can be connected to the STE-1005/1008/1016/1024-G switch via a two-pair Category 5/Cat5E UTP/STP straight cable, the switch can realize the MDI/ MDI-X function automatically. The PC can be connected to any of the 5/8/16/24 ports

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2.2 Switch to HUB

A HUB can be Uplink to the STE-1005/1008/1016/1024-G switch via a two-pair Category 5/Cat5E UTP/STP straight cable, the switch can also realize the MDI/ MDI-X function automatically. The PC can be connected to any of the 5/8/16/24 ports .

2.3 Switch to Switch

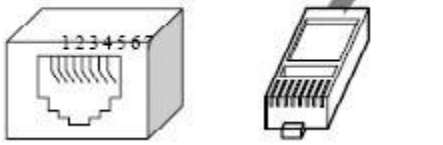
A Switch can be Uplink to the STE-1005/1008/1016/1024-G switch via a two-pair Category 5/Cat5E UTP/STP straight cable, the switch can also realize the MDI/ MDI-X function automatically. The PC can be connected to any of the 5/8/16/24 ports .

Notice: The 5/8/16/24 Port Fast Ethernet Switch have auto-negotiation function ,the port indicator situation dependents on the work model negotiation result, the indicator situation specification is as the indicator specification described above.

3. Appendix

RJ-45 PIN SPECIFICATION

When connecting your 5/8/16/24 Port fast ethernet switch to another switch, a bridge or a hub, No need to use a crossover cable. Please review these products for matching cable pin assignment.

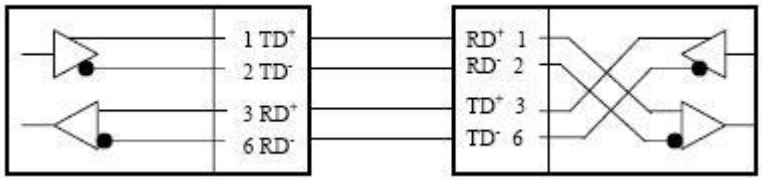


The standard RJ-45 receptacle/connector

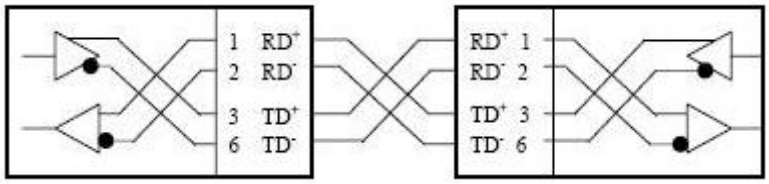
RJ-45 Connector pin definition	
Contact	Contact
1	A_TX + (sender)
2	A_TX - (sender)
3	B_RX + (receiver)
4	C_TX + (sender)
5	C_TX - (sender)
6	B_RX - (receiver)
7	D_RX + (receiver)
8	D_RX - (receiver)

The standard Cat5,Cat5e, Cat6 STP/UTP cable, RJ-45 pin assignment,(Used for 1000Mbps connection)

The following shows 10/100Mbps straight cable and crossover cable connection:



Straight cable for the 10/100Mbps ports switch (uplink MDI-II port) to switch/Hub or other devices connection



Crossover cable for 10/100Mbps ports switch (MDI-X port) to switch/hub or other network devices (MDI-X port) connection.

NOTICE:

STE-1005/1008/1016/1024-G have auto-negotiation function ,the port indicator situation dependents on the work model negotiation result, the indicator situation specification is as the indicator specification described above.

The 1000Mbps cable and crossover cable connection is similar to the 10/100 port, But use all the 4 pairs twin cable, add the 4、5，7、8 twin pairs as TX and RX , and work at higher frequency, to make sure more stable network connection. we strongly advise to use the Cat5e and Cat6 UTP cable.

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